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Westcoast Women in Engineering, Science & Technology

Strategic Recruiting: Values-Guided Hiring

Dr. Elizabeth Croft, P.Eng., FEC, FASME Jennifer Pelletier



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA



Elizabeth Croft

Ph.D., P.Eng., FASME, FEC

NSERC Chair for Women in Science and Engineering BC/Yukon Region

Professor
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Manager, WWEST

The program of Dr. Croft's

NSERC Chair for

Women in Science and Engineering
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NSERC Chair for Women in Science and Engineering BC and Yukon Region



Westcoast Women in Engineering, Science & Technology

Our mission is to advance engineering and science as welcoming careers that serve our world through holistic understanding and creative, appropriate and sustainable solutions.

www.wwest.ca

Connecting People

> Pilot programs

Policy contributions

> Opening lines of communication

Providing trusted information

Research on gender diversity in SET

Why diversity?

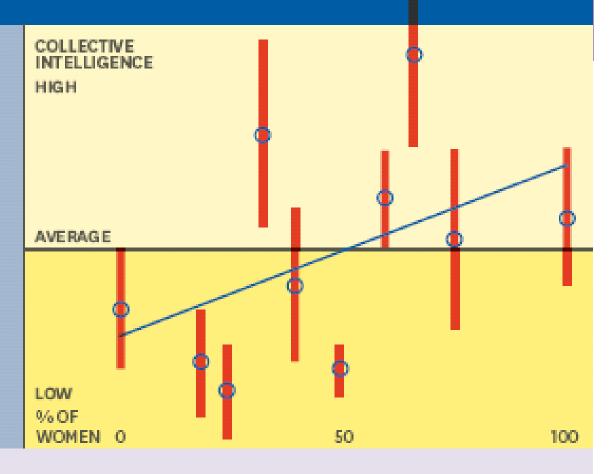
What is the equation for success? How do I attract and pick the right talent?

- Access of employers to a broader talent pool
- Increased innovation potential and market development
- Stronger financial performance
- Improved governance
- Greater return on human resource investment

¹ Emerson, C. (2010), Increasing Women in SETT, The Business Case, Canadian Center for Women in Science Engineering, Trades and Technology, 12 pp., www.ccwestt.org

The Female Factor

The chart plots the collective intelligence scores of the 192 teams in the study against the percentage of women those teams contained. The red bars indicate the range of scores in the group of teams at each level, and the blue circles, the average. Teams with more women tended to fall above the average; teams with more men tended to fall below it.



Woolley, A. & Malone, R. 2011. What Makes a Team Smarter? More Women. *Harvard Business Review*, 89(6): *32-33*. Thomas, D.A. & Ely, R.J. 1996. Making Differences Matter: A New Paradigm for Managing Diversity. *Harvard Business Review*, 74(5): 79-91.

Anacona, D.G. & Caldwell, D.F. 1992. Demography and Design: Predictors of New Product Team Performance. *Organization Science*, 3(3): 321-341.



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Female hurricanes are deadlier than male hurricanes

Kiju Jung^{a,1}, Sharon Shavitt^{a,b,1}, Madhu Viswanathan^{a,c}, and Joseph M. Hilbe^d

Author Affiliations *

Edited* by Susan T. Fiske, Princeton University, Princeton, NJ, and approved May 14, 2014 (received for review February 13, 2014)

Abstract Full Text Authors & Info Figures SI Metrics Related Content PDF PDF + SI

Significance

Meteorologists and geoscientists have called for greater consideration of social science factors that predict responses to natural hazards. We answer this call by highlighting the influence of an unexplored social factor, gender-based expectations, on the human toll of hurricanes that are assigned gendered names. Feminine-named hurricanes (vs. masculine-named hurricanes) cause significantly more deaths, apparently because they lead to lower perceived risk and consequently less preparedness. Using names such as Eloise or Charlie for referencing hurricanes has been thought by meteorologists to enhance the clarity and recall of storm information. We show that this practice also taps into well-developed and widely held gender stereotypes, with potentially deadly consequences. Implications are discussed for understanding and shaping human responses to natural hazard warnings.

Abstract

Do people judge hurricane risks in the context of gender-based expectations? We use more than six decades of death rates from US hurricanes to show that feminine-named hurricanes cause significantly more deaths than do masculine-named hurricanes. Laboratory experiments indicate that this is because hurricane names load to gonder based expectations about soverity and this in turn guides respondents!

This Issue



June 17, 2014 vol. 111 no. 24 Masthead (PDF) Table of Contents







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BIRL F F T C .

Our premise

Engineering as a profession needs the best and brightest of our entire community

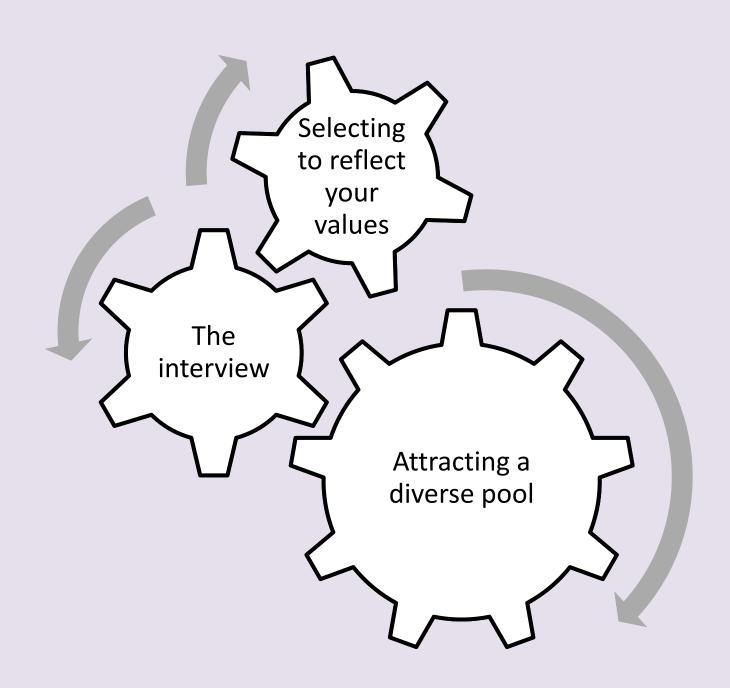
We don't need policies about women in engineering – we need good people policies

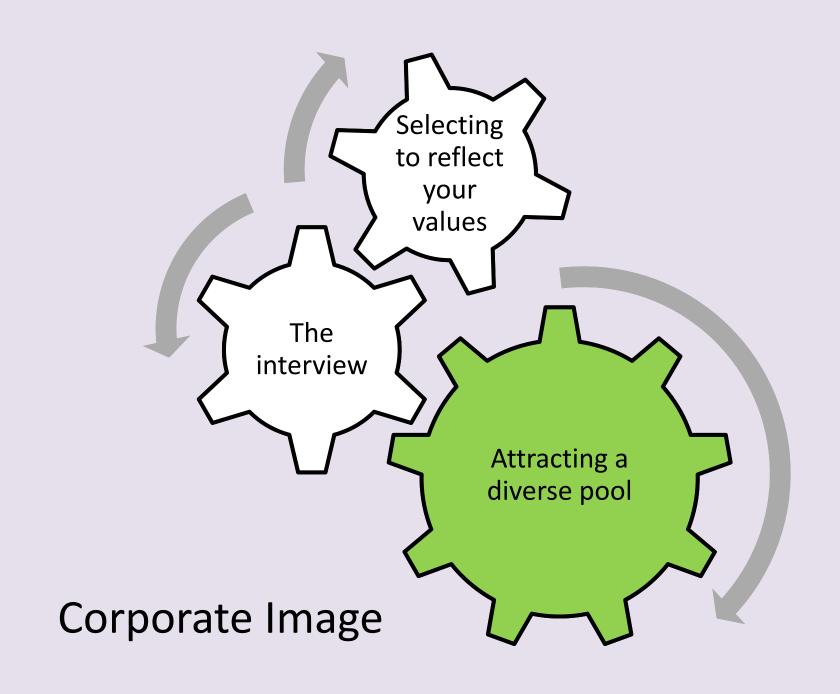
The best solutions are informed by the research and backed up with facts

People want to help, but they don't know what to do

Start from values.

This is about good people policies.







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Q

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Core Values & Code of Conduct

GRI Performance

Unearth Your Potential (PDF 2.6 MB)

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Career?

Learn more

1 2 3

May 20

We are looking for Journeyperson Industrial Mechanics/Millwrights and Heavy Duty Mechanics at our Rocanville... http://t.co/ynaHSQHGFb

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MAY 20 2015 Licensed Journeyperson Industrial Mechanics (Underground)



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CAREERS



Investing in the future

BC Hydro provides a work environment that includes challenging careers with opportunities for growth. We live by six core values: safety, integrity, service, accountability, teamwork and ingenuity. We're dedicated to being one of B.C.'s top employers.





An award-winning workplace

In 2015, BC Hydro has been chosen for the following nationally-recognized awards:

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CAREERS

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VIEW ALL JOB POSTINGS

The acquisition o was finalized on May 8th, 2015. This fact certainly makes our company one of the most attractive places to work in the oil and gas sector.

We are an organization with strong values and a focus on attracting and developing the best talent available. We are committed to conducting business safely and in a socially and environmentally responsible manner. Our employees are driven, tackle opportunities to do challenging work, have a bias for results and thrive in a fast-paced, high-energy work environment. Our people see everyday as an opportunity to be leaders within ', our communities and the industry.

As an international oil and gas company, our business takes us around the world in search of exploration and development opportunities. Headquartered in Canada, our two main operating

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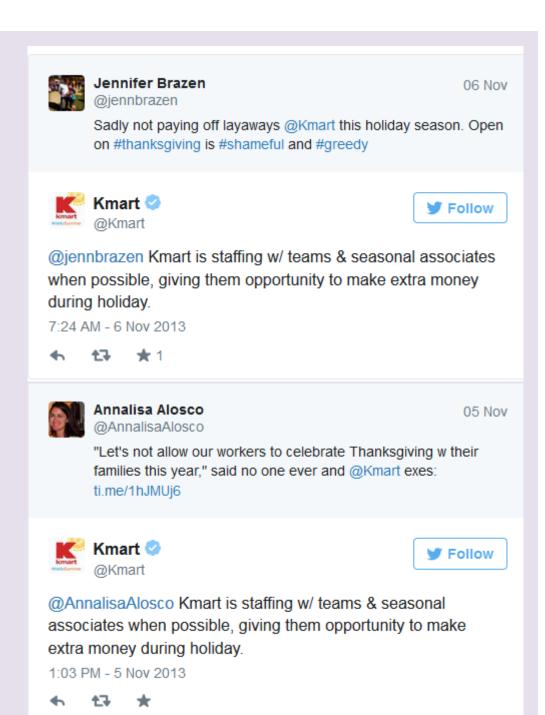
Search Jobs >



Teams in Canada

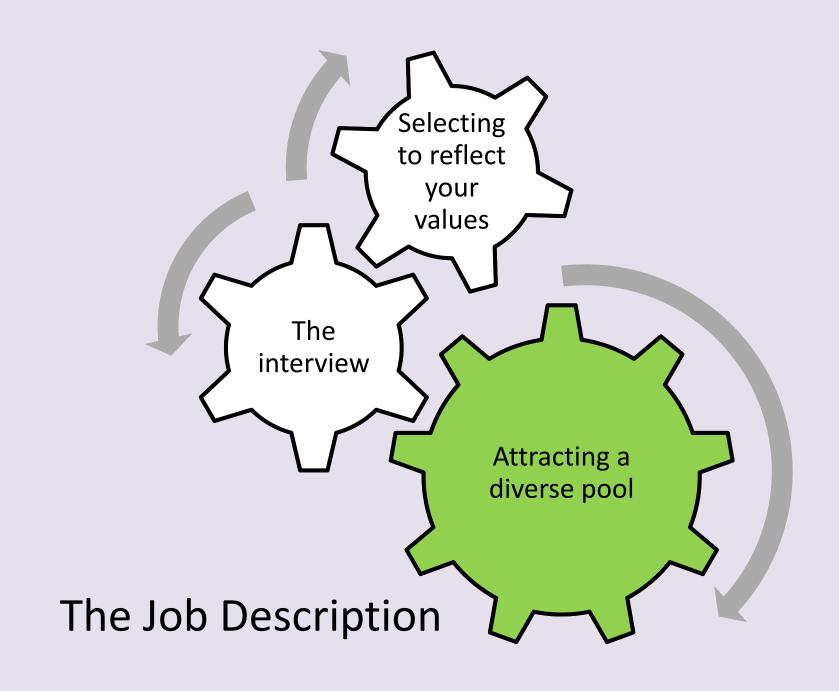
Learn about the roles in Canada by clicking on a team from office below.

"Kmart was excited to reveal they would be open earlier than ever Thanksgiving 2013 and would stay open through all of Black Friday."



Source: Business Insider





Gendered wording **subtly** signals who **belongs** and **who doesn't**.

Below are examples of language in job advertisements and qualities of candidates.

Seminine

- a company's "excellence" in the market
- "understand markets to establish appropriate selling prices"
- "We are committed to providing top quality health care that is sympathetic to the needs or our patients"

MASCULINE

- a company's "**dominance**" in the market
- "analyze markets to determine appropriate selling prices"
- "We are determined to deliver superior medical treatment tailored to each individual patient"

Source:

Gaucher, D., Friesen, J. & Kay, A. (2011).
Evidence that gendered wording in job
advertisements exists and sustains gender
inequality. Journal of Personality and Social

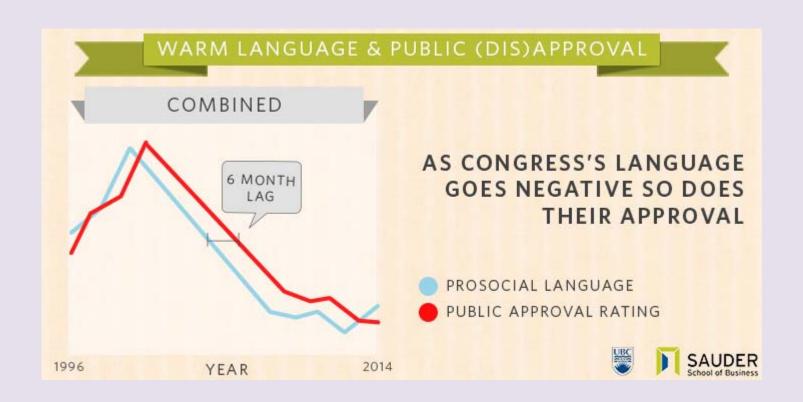
Sample Gendered Words

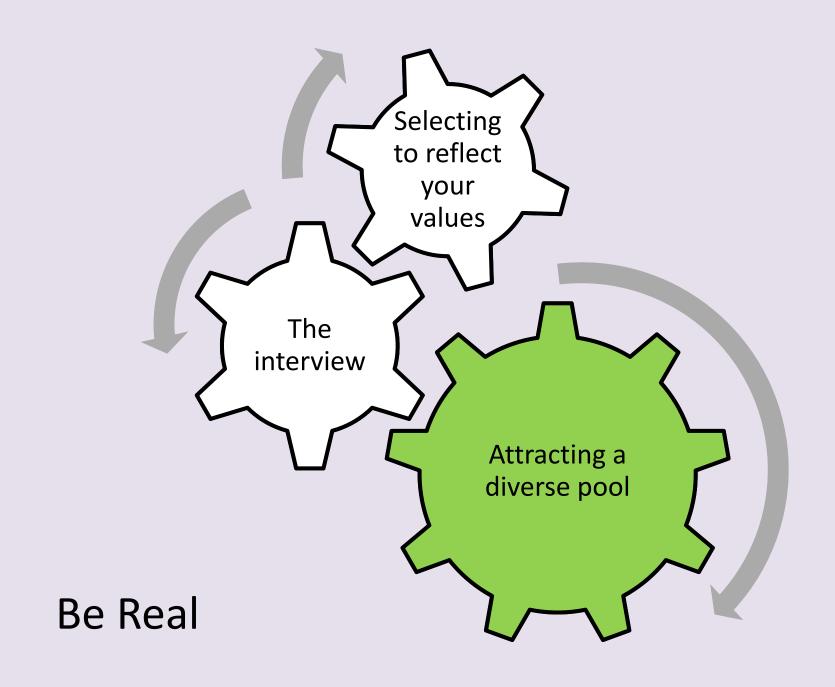


MASCULINE

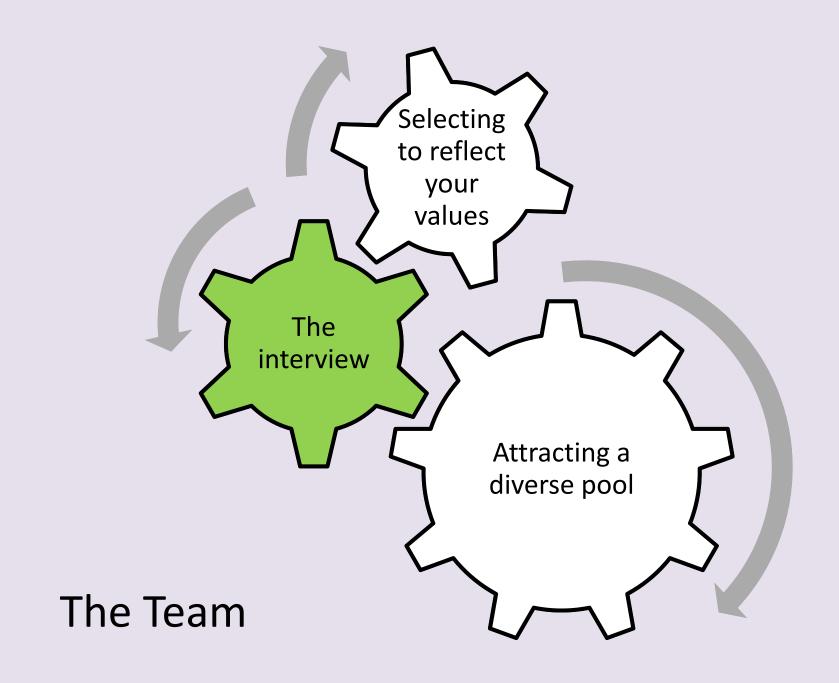
Active
Adventurous
Aggress*
Ambitio*
Analy*
Assert*
Athlet*
Autonom*
Challeng*
Compet*
Confident
Courag*
Decide
Decisive
Decision*
Determin*
Domina*
Force*
Hierarch*
Hostil*
Independen*
Individual*
Intellect*
Lead*
Logic
Objective
Opinion
Outspoken
Persist
Principle*
Stubborn
Superior
Self-confiden*

Gendered Language





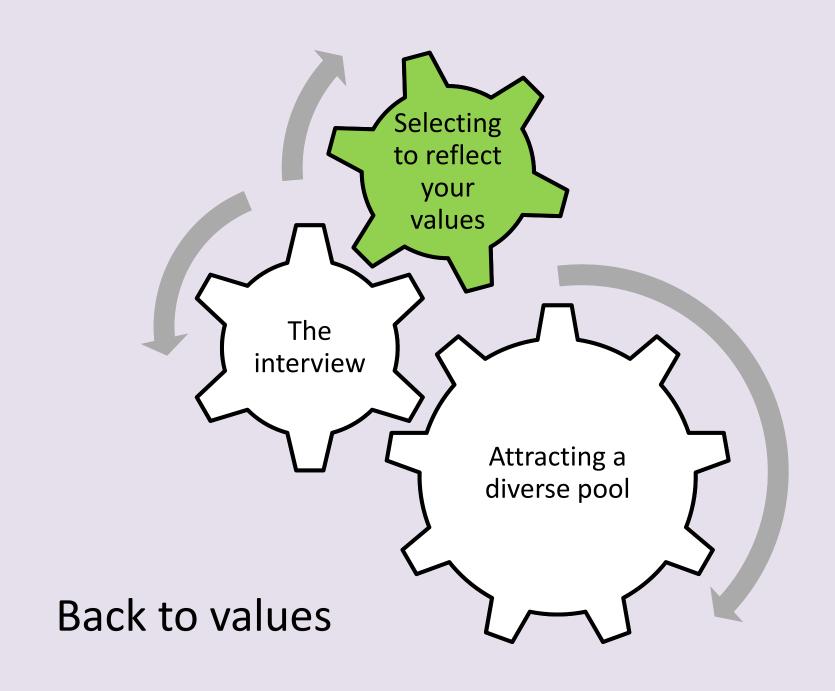
Position your company as the employer of choice.



Be Real

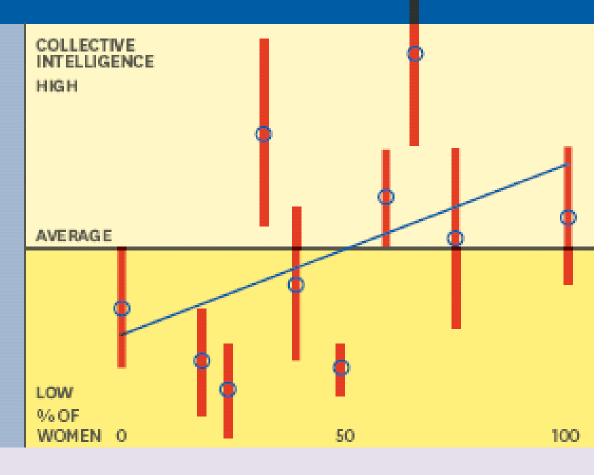
Bring it back to values.

Total compensation



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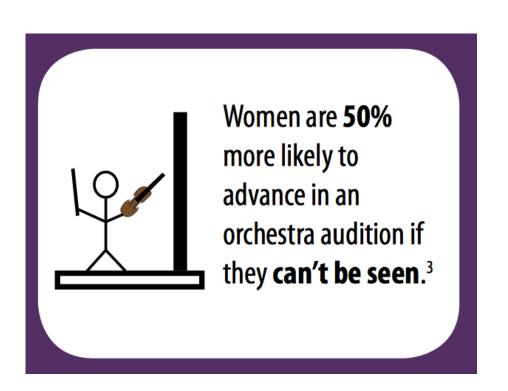
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Implicit bias

Implicit Bias

Implicit Bias: the assumptions and conclusions we jump to without thinking



US science professors were asked to evaluate a CV for a **lab manager**: ²
\$30,238.10</sup>
\$26,507.94

The male candidate was offered a **higher salary**...



... more mentorship



... and was rated more "competent" and "hireable."





The catch? Other than the names at the top, the CVs were **identical**.²

Select metrics on actual job needs

Anonymize resumes

Close the loop

Questions?

Describe a job.

As a group, brainstorm appropriate metrics.

ENGENDERING ENGINEERING SUCCESS



Elizabeth Croft

UBC (Mech. Eng.)
NSERC CWSE (BC/Yukon)

Toni Schmader

UBC (Soc. Psych.)
Canada Research Chair
(Soc. Psych.)

Michelle Inness

U. Alberta (Business)

Valerie Davidson

U. Guelph (Engineering)
Former NSERC CWSE
(Ontario)

et. al.

OVERALL OBJECTIVE

Engendering Engineering Success will study, develop and disseminate policies, practices and interventions that both support and reflect the real situation of women working in engineering careers.



GET INVOLVED

wwest.ca/ees

Organizational Policies and Practices:

1 hour commitment from HR-type person

Employee Experiences:

> Enroll in mixedsex groups (2+) of engineers who work closely together 4 hours each over 2-3 weeks; all online